Plant Science, 73 (1991) 265—266
Elsevier Scientific Publishers Ireland Ltd.

Contents

Volume 73 (1991)

PHYSIOLOGY AND BIOCHEMISTRY

Analysis of in vivo and in vitro grown endosperms of high and low protein strains of maize
by C. Balconi, E. Rizzi, L. Manzocchi, C. Soave and M. Motto (Bergamo, Milan and Potenza, Italy).. 1—9

Regulation mechanism of the pyrophosphate:D-fructose 6-phosphate 1-phosphotransferase activity by fructose 2,6-bisphosphate in *Euglena gracilis*
by T. Enomoto, H. Ohyama, H. Inui, K. Miyatake, Y. Nakano and S. Kitaoka (Niigata, Tottori and Osaka, Japan) ..... 11—18

Photoassimilate partitioning modulated by phytochrome in Bermuda grass (*Cynodon dactylon* (L.) Pers.)
by J. Beltrano, J. Willemoës, E.R. Montaldi and R. Barreiro (La Plata and Buenos Aires, Argentina) . 19—22

Properties of the tonoplast ATP-dependent H^+ pump of *Acer pseudoplatanus*: inhibition by nitrate and vanadate
by A. Pugin, T. Magnin and Y. Gaudemer (Besancon, France) ..... 23—34

Sporophytic and gametophytic heat shock protein synthesis in *Sorghum bicolor*
by C. Frova, G. Taramino and E. Ottaviano (Milan, Italy) ..... 35—44

Co-sedimentation of one form of plasma membrane H^+-ATPase and of the fusicoccin receptor from radish microsomes
by M.C. Cocucci and E. Marrè (Milan, Italy) ..... 45—54

GENETICS AND MOLECULAR BIOLOGY

Characterisation of nuclear gene controlled yellow stripe mutant of *Pennisetum glaucum* (L.) R.Br.
by M. Sujatha and N.C. Subrahmanyam (Hyderabad, India)..... 55—64

Introgressive hybridization of tomatoes by 'gamma-fusion' of *Lycopersicon esculentum* Mill. and *Lycopersicon peruvianum* var. *dentatum* Dun. protoplasts
by Y.I. Ratushnyak, S.A. Latypov, A.M. Samoylov, N.M. Piven and Y.Y. Gleba (Kiev and Kishinev, U.S.S.R.) ..... 65—78

CELL AND TISSUE STUDIES IN VITRO

DNA hybridization analysis of mitochondrial genomes of carrot cybrids produced by donor-recipient protoplast fusion
by L. Tanno-Suenaga and J. Imamura (Yokohama, Japan) ..... 79—86

In vitro tuberization in transgenic potatoes harboring β-glucuronidase linked to a patatin promoter: effects of sucrose levels and photoperiods
by A. Perl, D. Aviv, L. Willmitzer and E. Galun (Rehovot, Israel; Berlin, F.R.G.)..... 87—95

Detection of rubber in cultured material of *Parthenium argentatum* Gray (Guayule)
by I.A. Trautmann, J.H. Visser and H.S.C. Spies (Stellenbosch, South Africa) ..... 97—102

Effects of preconditioning and isolation conditions on potato (*Solanum tuberosum* L. cv. Russet Burbank) protoplast yield for shoot regeneration and electroporation
by M.-M. Chang and W.H. Loescher (Pullman, WA) ..... 103—109

Cryopreservation of apical meristems of white clover (*Trifolium repens* L.)
by T. Yamada, A. Sakai, T. Matsumura and S. Higuchi (Sapporo, Japan)..... 111—116

GENERAL

Quantitative analysis of lipids and protein from the pollen of *Brassica napus* L.
by D.E. Evans, P.E. Taylor, M.B. Singh and R.B. Knox (Parkville, Australia; West Lafayette, IN) ... 117—126

Book Review 127

PHYSIOLOGY AND BIOCHEMISTRY

Effect of fenoxaprop, haloxyfop and sethoxydim on acetyl coenzyme A carboxylase from rice, barnyardgrass and sprangletop
by L.A. Bjelk, T.J. Monaco and P.S. Zorner (Raleigh, NC; San Diego, CA) ..... 129—135
Plasmalemma-bound ATPase of potato tubers and its inhibition by *Phytophthora infestans*-derived elicitors of the hypersensitive reaction
by E.P. Ladyzhenskaya, A. Ádám, N.P. Korableva and T. Érsek (Moscow, U.S.S.R.; Budapest, Hungary) 137—142
Sucrose metabolism in sugarcane cell suspension cultures
by W. Goldner, M. Thom and A. Maretzki (Aiea, HI) ..... 143—148
Diurnal variations of corn leaf nitrate reductase: an experimental distinction between transcriptional and post-transcriptional control
by C. Lillo (Stavanger, Norway) ..... 149—154
Mode and control of starch mobilization during germination of seeds of horse gram
by D. Karunagaran and P. Ramakrishna Rao (Anantapur, India) ..... 155—159
Pyrithiamin is a competitive inhibitor of ATP:thiamin pyrophosphotransferase (EC 2.7.6.2) from dark-grown soybean [*Glycine max* (L.) Merr., cv. Ransom II] seedling axes
by P.K.W. Howle and R.C. Fites (St. Paul, MN; Raleigh, NC) ..... 161—166

GENETICS AND MOLECULAR BIOLOGY

Transformation of Japanese potato cultivars with the β-glucuronidase gene fused with the promoter of the pathogenesis-related 1a protein gene of tobacco
by T. Ishige, M. Ohshima and Y. Ohashi (Ibaraki, Japan) ..... 167—174
Detection of a DNA segment that occurs in wheat embryo but not in wheat endosperm cell nuclei
by M. Tomaszewski, M. Dobrzanska, A. Gozdzicka-Jozefiak, M. Materny and J. Buchowicz (Warsaw and Poznan, Poland) ..... 175—179
Self assembly of immunoglobulins in the cytoplasm of the alga *Acetabularia mediterranea*
by M. Stieger, G. Neuhaus, T. Momma, J. Schell and F. Kreuzaler (Köln, F.R.G.) ..... 181—190
Transposition of maize transposable element Activator in rice
by Z. Jing-liu, L. Xiao-ming, C. Rui-zhu, H. Rui-xin and H. Meng-min (Shanghai, People's Republic of China) ..... 191—198

CELL AND TISSUE STUDIES IN VITRO

Selection of atrazine-resistant tobacco variants from photomixotrophic cultures
by W.-C. Wang, J.R. Myers and G.B. Collins (Lexington, KY) ..... 199—209
Amyloplast division in kinetin induced potato tubers
by A.M. Mingo-Castel, A.M. Pelacho and M.R. de Felipe (Pamplona, Lerida and Madrid, Spain) 211—217
Plant regeneration at high frequency from mature sunflower cotyledons
by N. Knittel, A.S. Escandón and G. Hahne (Strasbourg, France) ..... 219—226
Responses to osmotic and NaCl stress of wheat varieties differing in drought and salt tolerance in callus cultures
by S. Trivedi, G. Galiba, N. Sankhla and L. Erdei (Szeged and Martonvásár, Hungary; Jodhpur, India) 227—232
In vitro root culture: a novel approach to study the obligate parasite *Striga asiatica* (L.) Kuntze
by S.J. Wolf and M.P. Timko (Charlottesville, VA) ..... 233—242
Histology and stereological analysis of shoot formation in leaf callus of *Saintpaulia ionantha* Wendl (African violet)
by F.A. Redway (Kingston, Jamaica) ..... 243—251

GENERAL

Lethal amounts of ricinine in green peach aphids (*Myzus persicae*) (Suzler) fed on castor bean plants
by J.I. Olaifa, F. Matsumura, J.A.D. Zeevaart, C.A. Mullin and P. Charalambous (East Lansing, MI; University Park, PA) ..... 253—256
Book Reviews ..... 257—258
Subject Index Volume 73 ..... 259—262
Author Index Volume 73 263
Contents Volume 73 ..... 265—266